

PROCEEDINGS  
OF THE  
BIOLOGICAL SOCIETY OF WASHINGTON

---

DESCRIPTIONS OF APPARENTLY NEW SPECIES AND  
SUBSPECIES OF MAMMALS FROM MEXICO  
AND SAN DOMINGO.

BY D. G. ELLIOT, F. R. S. E. ETC.

---

With one exception all the species described in this paper were obtained in Mexico by the collectors for the Field Columbian Museum, Messrs. Heller and Barber. The *Phyllonycteris* has been in the museum collection for several years, but failing to obtain more examples it is now described in hopes that attention may be drawn to it and more specimens thereby procured.

**Tamias nexus** sp. nov.

*Type* from Coyotes, Durango, Mexico. Field Columbian Museum. Collector's No. 4293.

*General characters*.—Darker generally than either *T. bulleri* or *T. durangæ*. Light dorsal stripes reddish not gray; rump and thighs much darker; light face stripes not so pure white; underparts mostly plumbeous on sides and belly, not white, and middle of tail beneath chestnut, not buff nor ochraceous-buff as in the two forms named above.

*Color*.—Top of head iron gray, black stripe from nose above eye nearly to ear, and one from nose to eye, becoming dark chestnut behind eye to ear; yellowish white stripe from nose between the black ones becoming a narrow line above eye and a broader one beneath eye; broad chestnut stripe from nose across cheeks to beneath ear. Grayish white patches behind ears; back of neck, shoulders, flanks, upper side of arms from wrists and thighs to ankles dark gray tinged on shoulders and flanks with yellowish; median black dorsal stripe from head to root of tail bordered on either side with a rufous and gray stripe, followed by a blackish chestnut stripe, succeeded by an outermost stripe of ochraceous, the outermost of all being dark chestnut. There are thus five dark stripes and four lighter ones, the middle pale ones being so tinged with red as to give the dorsal region a chestnut hue. Rump rufous; underparts from chin to and including breast white, remainder plumbeous with a whitish line through center of abdomen. Tail above black edged with white, beneath chestnut bordered with black and edged with white, tip black also edged with white. Hands

and feet whitish-gray; ears externally black on anterior half, gray on posterior.

*Measurements.*—Total length, 235; tail vertebræ, 91; hind foot, 27; ear, 21. Skull: Occipito-nasal length, 38; Hensel, 30; interorbital width, 9; zygomatic width, 21; mastoid breadth; 17; palatal length, 16; length of nasals, 12; width of rostrum posteriorly, 7; length of upper toothrow, 6; length of mandible to tip of incisors, 23; length of lower toothrow, 6.

*Remarks.*—Five specimens of this chipmunk were obtained by Messrs. Heller and Barber at Coyotes, about 20 miles to the west of Durango City. While resembling somewhat the two forms to the westward of the Sierra Madre, as might be expected, the present form attracts attention by its darker and more reddish coloration, especially on the back and rump, by the rufous hue of the pale dorsal stripes; by the plumbeous underparts and by the chestnut color of the tail beneath. It appears to be entitled to specific recognition, and may not be placed with either of its near relations. For comparison, I have had Dr. Allen's types and series of *T. bulleri* and *T. durangæ*.

#### **Rhithrodontomys amœnus** sp. nov.

*Type* from Reforma, Oaxaca, Mexico. Field Columbian Museum. Collector's No. 3823.

*General characters.*—Somewhat similar to *R. helvobus* but smaller and differently colored

*Color.*—Fore part of back, cheeks and shoulders pale ochraceous buff; top of head, lower part of back, rump and flanks dull ochraceous rufous, tinged with hazel; underparts, hands and feet white; tail brownish above, white beneath.

*Measurements.*—Total length, 148; tail vertebræ, 81; hind foot, 8.5. Skull: Total length, 20; Hensel, 14; zygomatic width, 10; interorbital width, 3; palatal length, 8; length of nasals, 6; of upper toothrow, 4; of mandible, 12; of lower toothrow, 4.

*Remarks.*—In color, this species does not closely resemble any described, although it belongs to the group represented by *R. helvobus* and is perhaps nearest to that form, but it is considerably smaller, as the measurements show, with quite a different style of coloration. A single specimen was procured by Messrs. Heller and Barber. Another example is in the collection of the Biological Survey.

#### **Orthogeomys cuniculus** sp. nov.

*Type* from Yautepec, Oaxaca, Mexico. Field Columbian Museum. Collector's No. 3878.

*General characters.*—Size medium; no nasal pad; hair scanty; pelage rather harsh, neither bristly nor soft; tail long, naked; skull heavy; zygomatic slender and narrowest posteriorly; nasals long.

*Color.*—General color over all the body vandyke brown; hairs on underparts and limbs very scanty, the flesh color of the skin being chiefly noticeable; hands, feet and tail flesh color. An immature specimen is Prout's brown, somewhat darker than the adult, the fur being more woolly.

*Measurements.*—Total length, 330; tail vertebræ, 95; hind foot, 44; ear, 7.

Skull: Total length, 59; Hensel, 50; zygomatic width, 26; interorbital width, 12; palatal length, 26; median length of nasals 23; width posteriorly, 4; width anteriorly, 7; length of upper toothrow, 8; length of mandible, 47; of lower toothrow, 8.

*Remarks.*—This species does not seem to require comparison with any other known. It belongs to that section of the genus without nasal pads and is about the size of *O. latifrons* but with somewhat differently proportioned tail and feet. The specimens were procured by Messrs. Heller and Barber.

**Heterogeomys lanius** sp. nov.

*Type* from Xuchil, Vera Cruz, Mexico. Field Columbian Museum. Collector's No. 4092.

*General characters.*—Size large; fur soft, woolly; color very dark. Skull heavy; nasals long, widening greatly anteriorly; zygomata broad anteriorly; palatal arch pointed but not acute; pterygoids graduated to acute point; incisors large, heavy, curved; mandible heavy, compact.

*Color.*—Entire upperparts and sides blackish seal brown, more black than brown; underparts dark hair brown; numerous white hairs on rump at base of tail and all over the underparts, so thickly gathered toward base of tail beneath as to cause that part to appear white. Hands and feet very dark seal brown; tail blackish, naked; claws very long, curved, horn color.

*Measurements.*—Total length, 361; tail vertebræ, 90; hind foot, 54; ear, 10. Skull: Total length, 64; Hensel, 51; zygomatic width, 41.5; interorbital width, 14; palatal length, 39; length of nasals, 26; width posteriorly, 6; width anteriorly, 10; length of upper toothrow, 14; length of mandible to tip of incisors, 53; of lower toothrow, 13.

*Remarks.*—This species by its peculiar soft woolly coat differs from the other described forms and would seem to be easily recognizable. It is somewhat larger than *H. hispidus*, but the hair of that species is harsh as its name indicates. The specimens were obtained by Messrs. Heller and Barber.

**Putorius macrophonus** sp. nov.

*Type* from Achotal, Vera Cruz, Mexico. Field Columbian Museum. Collector's No. 3474.

*General characters.*—Size very large; tail exceedingly long; skull large and heavy; teeth large; canines long, narrow.

*Color.*—Top and sides of head black graduating into chestnut brown of upperparts and sides of body; this hue extending well on to the underparts between the limbs; limbs, hands, feet and tail chestnut brown, the last tipped with black; white spot above eye and white stripe from above eye to ear; chin and throat white reaching into the dark ochraceous buff of the underparts.

*Measurements.*—Total length, 598; tail vertebræ, 246; hind foot, 59; ear, 23. Skull: Total length, 60; Hensel, 54; zygomatic width, 34; interorbital width, 8; palatal length, 24; length of upper toothrow including canine, 16; length of canine, 9; length of mandible, 35; of lower toothrow including canine, 20.

*Remarks.*—This is the largest member of the bridled weasel group yet discovered. The nearest ally appears to be *P. f. goldmani*, but the difference in the dimensions are so great that any comparison is useless. The skulls of the two forms contrasted together exhibit in that of the present species the following differences: Interorbital space narrower; braincase longer; bullæ much wider, longer and flatter; pterygoid fossa longer, the arch pointed; teeth much larger and palate longer and wider. Specimens were obtained by Messrs. Heller and Barber.

***Phyllostoma verrucosum* sp. nov.**

*Type* from Niltpec, Oaxaca, Mexico. Field Columbian Museum. Collector's No. 3886.

*General characters.*—Size small; V-shaped groove on lower lip margined with eleven to thirteen warts; ears as in the genus; calcar shorter than foot. Skull compared with that of *P. hastatum* is relatively broader inter-orbitally and the rostrum narrower anteriorly, while the upper occipital outline is continuous.

*Color.*—Fore part of head above and face from ears to end of nose dark fawn becoming brownish around eyes; band from behind ears and over the center of the back dark russet; back of head and nape very dark mummy brown; chin, throat and breast whitish buff; rest of underparts olive gray with a pinkish tinge on the sides; ears, membranes, feet and tail, blackish brown. In some specimens the throat is ochraceous buff.

*Measurements.*—Total length, 105; tail vertebræ, 15; foot, 17.5; ear, 20; forearm, 62.25. Skull: Total length, 32; Hensel, 22; zygomatic width, 17; palatal length, 13; length of nasals, 4; length of upper molar series, 7; length of mandible, 20; of lower molar series, 9.

*Remarks.*—This new form of *Phyllostoma* can not be confounded with any other of this genus heretofore described. It is much smaller than *P. hastatum* but larger than Mr. Thomas' species from British Guiana. A number of examples were obtained by Messrs. Heller and Barber.

***Phyllonycteris santa-cristobalensis* sp. nov.**

*Type* from San Cristobal, San Domingo, W. I. Field Columbian Museum. Collected by G. K. Cherrie.

*General characters.*—Ear long, rather narrow, tip rounded; tragus broad, with elongated acute tip; nose leaf small, separated from ridge behind by a deep groove; wings from above ankle; toes very long. Skull with elevated arched braincase, high above rostrum; the latter broad, swollen; zygomatic arch complete; canines rather large, molars small; palate broad.

*Color.*—Above vandyke brown at tips, rest of hairs white; beneath pinkish buff; ears brown; wings black.

*Measurements.*—Skin: Total length, nose to end of foot, 89; forearm, 45; thumb, 13; fifth finger, 57; tibia 20; foot, 14.5. Skull: Occipito-nasal length, 21; total length, 23; zygomatic width, 11; height of braincase, 10; length of nasals, 7; width of rostrum, 5; palatal length, 10; width of palate, 4; length of upper molar series, 7; length of mandible, 15.

*Remarks.*—In color this species differs from all others of the genus and from *P. poeyi* in addition in having a complete zygomatic arch.